

Docket No. 251578US2



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Mitsuhiro NOGUCHI et al.

SERIAL NO: 10/822,177

GAU: 2655

FILED: April 12, 2004

EXAMINER:

FOR: DATA STORAGE SYSTEM

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☐ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☒ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. **In accordance with discussions on August 4, 2004 with Mr. Nicholas P. Godici, Commissioner for Patents, it is no longer required to submit copies of cited pending applications. A modification of the Rules will be published soon in the Official Gazette. Cited issued patents, if any, are listed on the attached PTO form 1449.**
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.

Eckhard H. Kuesters

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Joseph A. Scafetta, Jr.
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Customer Number

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(OSMMN 05/03)



LIST OF RELATED CASES

<u>Docket Number</u>	<u>Serial or Patent Number</u>	<u>Filing or Issue Date</u>	<u>Inventor/ Applicant</u>
221455US2	10/108,574	03/29/02	NOGUCHI et al.
219880US2S	10/077,757	02/20/02	NOGUCHI et al.
194412US2S	6,411,548	06/25/02	SAKUI et al.
227478US2S	10/230,092	08/29/02	NOGUCHI et al.
235730US2S	10/393,946	03/24/03	NOGUCHI et al.
244789US2	10/696,028	10/30/03	NOGUCHI et al.
251578US2*	10/822,177	04/12/04	NOGUCHI et al.

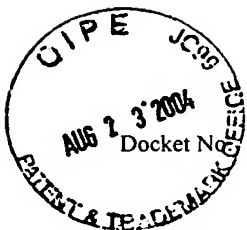
*Present Application; listed for information

EHK/akh

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Form PTO 1449 (Modified)		DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 251578US2		SERIAL NO. 10/822,177	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT Mitsuhiro NOGUCHI, et al.			
				FILING DATE April 12, 2004		GROUP 2655	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
	AA	6,411,548	06/25/02	SAKUI et al.			
	AB	US 2002/0159315	10/31/02	NOGUCHI et al.			
	AC	US 2002/0141242	10/03/02	NOGUCHI et al.			
	AD	US 2003/0042558	03/06/03	NOGUCHI et al.			
	AE	US 2004/0094793	05/20/04	NOGUCHI et al.			
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION			
				YES	NO		
	AO						
	AP						
	AQ						
	AR						
	AS						
	AT						
	AU						
	AV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AW						
	AX						
	AY						
	AZ				<input type="checkbox"/> Additional References sheet(s) attached		
Examiner				Date Considered			

*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

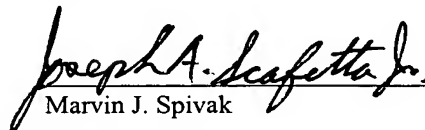
- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

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OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.


Marvin J. Spivak

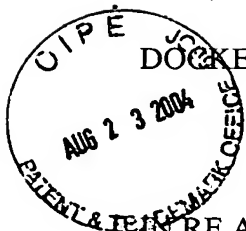
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STATEMENT OF RELEVANCY

Reference AA (US 6,049,899) on Form PTO-1449:

This reference describes data correction with an ECC circuit without analyzing error modes, whereas ours does the data correction and refresh with analyzing them.

Reference AB (US 6,215,148) on Form PTO-1449:

This reference describes an arrangement of a dual bit ROM with a storage layer made of silicon nitride.

Reference AC (US 6,201,282) on Form PTO-1449:

This reference describes an arrangement of a dual bit ROM with a storage layer made of silicon nitride.

Reference AO (JP 8-279295) on Form PTO-1449:

This reference describes data correction with an ECC circuit without analyzing error modes, whereas ours does the data correction and refresh with analyzing them.

Reference AP (JP 11-330277) on Form PTO-1449:

This reference shows read disturbance on the NAN-D-type EEPROMs.

Reference AQ (JP 2002-150783) on Form PTO-1449:

This reference shows read disturbance on the NAN-D-type EEPROMs.

Form PTO 100 (Modification)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 251578US2		SERIAL NO. 10/822,177	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT Mitsuhiro NOGUCHI, et al.			
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	6,049,899	04/11/2000	D. L. AUCLAIR, et al.			
	AB	6,215,148	04/10/2001	B. EITAN			
	AC	6,201,282	03/13/2001	B. EITAN			
	AD						
	AE						
	AF						
	AG						
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	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
					YES	NO	
	AO	8-279295	10/22/1996	JAPAN (with English Abstract)		X	
	AP	11-330277	11/30/1999	JAPAN (with English Abstract)		X	
	AQ	2002-150783	05/24/2002	JAPAN (with English Abstract)		X	
	AR						
	AS						
	AT						
	AU						
	AV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AW						
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	AY						
	AZ					<input type="checkbox"/> Additional References sheet(s) attached	
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